

BIOLOGY >> Cell Structure and Function

Q 1 Photosystems are located in _____ .

A Stroma

B Chloroplast envelope

C Thylakoid membranes

D The intergrana

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Q 2

Ribose is an example of which of the following?

A

Trioses

B

Pentoses

C

Tetroses

D

Hexoses

1

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Q 3

The number of spermatids produced from primary spermatocytes is?

A

1

B

2

C

3

D

4

2

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Q 4 Which of the following plays the major role in providing support to young herbaceous parts of the plant?

A higher turgor pressure

B cortex and pith with higher turgor pressure

C Collenchyma cells

D all of these

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Q 5

Where does the bacteriophage replicate?

A

Human

B

Animal

C

Bacteria

D

Horse

4

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Q 6

Which of the following structure provides greater pathogenicity to the bacteria?

A

slime

B

cell wall

C

cell membrane

D

capsule

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Q 7

The ability to pass on genes is defined as which of the following?

A

differential reproduction

B

evolution

C

natural selection

D

fitness

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Q 8

In mixed inhibition, the allosteric affect effects

A

shape of substrate

B

shape of inhibitor

C

shape of enzyme

D

none of these

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Q 9

Which one is not an energy releasing process?

A

Glycolysis

B

Photosynthesis

C

Respiration

D

Krebs Cycle

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Q 10 The spinal cord acts as a link between body parts and ---

A brain

B skull

C heart

D lungs

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Q 11

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

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Q 12

The set of all genes in any population is termed as?

A

population pool

B

species pool

C

gene pool

D

all of these

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Q 13

The affect of genetic drift increases as the population size?

A

increases

B

decreased

C

remains same

D

none of these

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Q 14

Coelom is lined by which of the following?

A

Parietal mesoderm

B

Visceral mesoderm

C

Mesoderm

D

both a and b

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Q 15

The part of chloroplast where CO_2 is fixed to manufacture sugar is?

A

stroma

B

grana

C

thylakoid

D

outer membrane

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Q 16

Which of the light is mainly absorbed by the plants?

A

Orange

B

Red

C

Green

D

Both A and B

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Q 17

Smooth muscles, cardiac muscles and organs are regulated by which of the following?

A

Central nervous system

B

Parasympathetic nervous system

C

Sympathetic nervous system

D

Autonomic system

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Q 18

According to Ivanovski what are soluble living germs

A

Bacteria

B

Viruses

C

Fungi

D

Both A and B

17

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Q 19

Cortisol brings about an increase in blood glucose level mainly by its production from protein and by?

A

glucagon

B

estrogen

C

insulin

D

progesterone

18

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Q 20

What is the shape of the TMV Virus?

A

rod

B

spherical

C

tadpole

D

helical

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Q 21 Under the microscope, the bacteria appear a bluish-purple color. Which class of bacteria are on the slide?

A gram positive

B gram negative

C both a and b

D none of these

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Q 22

When was the agent causing AIDs discovered?

A

1994

B

1984

C

1950

D

1920

21

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Q 23

Which of the following statements explains why viruses are only able to multiply in living cells?

A

Their binary fission is controlled by host cell genes

B

Virus do not possess the necessary components for self-replication

C

DNA is only able to replicate inside living cells

D

They have only enough genetic information for DNA replication

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Q 24

The body of which of the following organism is globular?

A

cake urchin

B

sea urchin

C

sea cucumber

D

brittle star

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Q 25

If we add more substrate to already occurring enzymatic reaction and it has no effect on the rate of reaction, the process is called?

A

denaturation

B

composition

C

inhibition

D

saturation

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Q 26

The outer body wall of sponges is made up of which cells?

A

Choanocytes

B

Pinacocytes

C

Mesenchymal cells

D

Cnidocytes

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Q 27

How does inbreeding negatively impact a population?

A

the frequency of alleles does not change within the population.

B

It reduces the number heterozygous individuals, preventing beneficial alleles from being efficiently selected for.

C

increases the number of homozygous individuals, allowing potentially harmful recessive alleles to express themselves more frequently.

D

all of these

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Q 27

How does inbreeding negatively impact a population?

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C

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D

all of these

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Q 28

Myoglobin protein present in muscles of human body is a ____ protein

A

globular protein

B

plated protein

C

tertiary protein

D

quaternary protein

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Q 29

In mammals that are seasonal breeders, females are receptive only once a year. This is known as

A

follicular cycle

B

estrous cycle

C

luteal cycle

D

menstrual cycle

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Q 30

Vertebrates are evolutionarily adapted to terrestrial life. Which one of the following adaptations is LEAST likely to contribute to this land-based predominance?

A

Internal fertilization

B

Impermeable outer skin

C

Development of legs

D

Short loops of Henle

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Q 31

Which of the following characters of pea plant is dominant?

A

Yellow pods

B

White flowers

C

Wrinkled seeds

D

Axial flowers

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Q 32

Which of the following is a unique characteristic of prokaryotic cells?

A

Lack of a cytoplasm

B

Presence of a cell wall

C

Inability to create proton gradients

D

mRNA translation simultaneous to transcription

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Q 33

A man with type AB blood marries a woman with type A blood. Which of the following blood types might their sons inherit?

A

Type A or type O

B

Type B or type O

C

Type AB only

D

Type A, type B, or type AB

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Q 34

In the peripheral nervous system, the nerves that arise from spinal cord and brain are called?

A

cranial nerves

B

spinal nerves

C

frontal nerves

D

both a and b

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Q 35

Haemophilia B is due to abnormality of factor?

A

VIII

B

X

C

IX

D

XI

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Q 36

Which of the following organelle is involved in the release of oxygen?

A

mitochondria

B

chloroplast

C

glyoxysome

D

both a and b

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Q 37

Name the first part of small intestine.

A

Duodenum

B

Jejunum

C

Ileum

D

Both A and B

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Q 38

Extreme change in pH results in which of the following?

A

Change in ionization of amino acids at the active site of the enzyme

B

Change in the ionization of the substrate

C

Increase in the reaction rate

D

Denaturation of the enzyme

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Q 39

External male genitalia are:

A

a pair of testes

B

seminephorous tubules

C

male copulatory organ

D

Both A and C

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Q 40

The flow of lymph is always towards ----

A

pancreatic duct

B

bile duct

C

thoracic duct

D

parotid duct

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Q 41

The A band further divides into the:

A

Z-line

B

A band

C

H zone

D

Z zone

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Q 42

What is the coenzyme that facilitates the oxidation of fumarate?

A

FAD

B

PADH2

C

NAD

D

NADPH

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Q 43

What is the first step in the replication of bacteriophage?

A

replication

B

penetration

C

attachment

D

injection

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Q 44

The process which requires energy:

A

Diffusion

B

Facilitated diffusion

C

Osmosis

D

active transport

43

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Q 45

The largest organelle in a mature living plant cell is?

A

chloroplast

B

nucleus

C

central vacuole

D

mitochondria

44

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Q 46

Monosynaptic refers to the presence of how many chemical synapse/s?

A

1

B

2

C

3

D

4

45

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Q 47 The total gestation period (pregnancy) is usually about:

A 28 days

B 250 days

C 280 days

D 300 days

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Q 48

The muscle contraction depends on:

A

Nerve impulse

B

energy

C

calcium

D

All of these

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Q 49

What is the human breathing rate during hard physical work?

A

10 to 15 times per minute

B

10 to 20 times per minute

C

80 to 120 times per minute

D

30-40 times per minute

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Q 50

During aristotle time, it was thought that

A

oranism ranged from simple to complex

B

one type of organism give rise to another type of organism

C

both a & b

D

all living things specially created by nature

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Q 51

The reversible inhibitors usually constitute which of the following?

A

No Linkage with enzyme

B

Strong linkage with enzyme

C

medium linkage

D

Weak linkage with enzyme

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Q 52

Which of the following genetic diseases is caused by mutations in a membrane protein?

A

Alzheimer's disease

B

Parkinson's disease

C

Anemia

D

Hemolytic anemia

51

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Q 53

The experiment that simulated conditions thought to be present on the early earth

A

Hershey Chase experiment

B

Geiger Marsden experiment

C

Schiehallion experiment

D

Miller-Urey experiment

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Q 54

One similarity between annelids and arthropods:

A

Closed circulatory system.

B

Nitrogenous waste product is uric acid.

C

Ventral nerve cord.

D

None of the above.

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Q 55

Metacarpophalangeal joints are examples of:

A

Saddle joint

B

Condylloid joint

C

Ball and socket joint

D

Hinge joint

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Q 56

Where does energy production take place in bacteria that can perform aerobic metabolism?

A

Nucleus

B

Plasma membrane

C

Inclusion Bodies

D

Mitochondria

55

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Q 57

Which of these functions will be affected if the medulla oblongata is damaged?

A

Thermoregulation

B

Vision

C

Memory

D

Tactile sensation-response when pricked with a needle

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Q 58

When a female ovulates, in what phase of division is the oocyte?

A

Anaphase I

B

Prophase I

C

Metaphase I

D

Metaphase II

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Q 59

Which molecule passes the mitochondrial membrane to begin the krebs cycle?

A

ATP

B

ADP

C

NADH

D

Acetyl coA

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Q 60

Notochord occurs throughout life and all through the length of the body in which of the following?

A

Hemichordata

B

Urochordata

C

Vertebrata

D

Cephalochordata

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Q 61

All of the following statements are true regarding the attachment or adsorption of the virion to the host cell EXCEPT that:

- A for naked virions, the surface capsid proteins are responsible for binding to a specific cell receptor.
- B for enveloped viruses, the spikes are responsible for binding to a specific cell receptor.
- C cell lacking a receptor for a specific virus is not infected by that virus.
- D All of the above

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Q 62

For attachment, rabies virus binds to a

A

complement receptor

B

integrin ICAM-1

C

acetylcholin

D

epidermal growth factor

61

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Q 63

Amino acids are arranged in proper sequence during protein synthesis according to the instruction transcribed on?

A

DNA

B

RNA

C

tRNA

D

mRNA

62

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Q 64

The stomata are closed at which of the following temperature? (In centigrade)

A

45

B

35

C

15

D

25

63

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Q 65

Which of the following is NOT a class of enzyme?

A

ligase

B

hydrolyse

C

isomerase

D

pyrimidine complex

64

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Q 66

The end product of an enzymatic reaction inhibits formation of product in an earlier step. This type of enzymatic regulation is known as ?

A

allosteric regulation

B

negative regulation

C

metabolic pathway loop

D

feedback inhibition

65

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Q 67

The auditory relay center is found in:

A

Corpus callosum

B

Hindbrain

C

Forebrain

D

Midbrain

66

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Q 68

Which one of the following statements is incorrect?

A

Eggs in the ovaries ripen when they meet a sperm

B

Girls are born with thousands of eggs in their ovaries.

C

Hormones control the release of the egg from the ovary.

D

One egg is released from the ovary about every month.

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Q 69 Ethene is prepared from alcohol by_____?

A Decomposition

B Dehydration

C Dehydroxylation

D Dehalogenation

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Q 70

Which type of organic compounds are present in natural gas?

A

High molecular mass

B

Low molecular mass

C

Low boiling point

D

Both b and c

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Q 71

K.E of the liquids is directly proportional to_____?

A

Pressure

B

Temperature

C

Mass

D

Nature

70

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Q 72

Aldehydes are present in natural oils that are used as?

A

Flavours

B

Fragrances

C

Both a and b

D

Sugars

71

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Q 73

Transition elements form complexes because_____?

A

They have empty d orbitals

B

They show variable oxidation states

C

Both a and b

D

They have strong bonding

72

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Q 74

The shielding effect _____ from left to right in a period

A

decreases

B

increases

C

remains same

D

no change

73

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Q 75

Limiting reactant controls the amount of _

A

reactant

B

products

C

both A & B

D

none of these

74

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Q 76

Which of the following is correct about IUPAC naming of carboxylic acid?

A

In the parent name COOH position is not mentioned

B

COOH is written as substituent and position is mentioned

C

COOH is given 1st position in all carboxylic acid

D

Both a and c

75

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Q 77 The reactions that needs energy are called as ___?

A Endothermic reactions

B Exothermic reactions

C Exergonic reactions

D Heat releasing reactions

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Q 78 S_N1 reaction is a _____?

A Multistep reaction

B Two step reaction

C Concerted reaction

D 3 step reaction

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Q 79

Enzymes that catalyze hydrolysis:

A

Oxidoreductase

B

Hydrolases

C

Ligases

D

Transferases

78

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Q 80

The intermolecular forces are very weak in

A

solids

B

liquids

C

gases

D

all of these

79

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Q 81

The molar volume of CO_2 is maximum at

A

273 C & 2 atm

B

c and 1 atm

C

STP

D

127 C & 1 atm

80

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Q 82

Which oxidation is possessed by all the elements of group III B ?

A

2

B

3

C

5

D

7

81

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Q 83

Which of the following reaction does acetylene give due to its acidic hydrogens?

A

Ozonolysis

B

Hydroxylation

C

Acetylide formation

D

Kolbe's electrolysis

82

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Q 84

Cl-Cl Bond distance is is 5.63 Å, While Na-Cl bond distance is

A

Half of 5.63

B

double to 5.63

C

5.63

D

None of these

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Q 85

Which one is for evaporation

A

surface phenomena

B

cause cooling

C

exothermic

D

continuous

84

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Q 86

Carboxylic acids are formed by the hydrolysis of _____?

A

Ester, Nitriles

B

Nitriles, amines

C

Alkenes, Alkynes

D

Esters, Alcohols

85

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Q 87

Aldehydes are converted into _____when undergoes Wolff Kishner reduction?

A

Alkenes

B

Alkanes

C

Alkynes

D

Alcohols

86

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Q 88

The order of reaction for which half-life is inversely proportional to the concentration of reaction is

A Second Order

B Zero Order

C First Order

D Third Order

87

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Q 89

For the identification of isotopes of elements having solid state

A

Aston spectrometer

B

dempster's mass spectrometer

C

Soddy mass spectrometer

D

atomic spectrometer

88

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Q 90

Formaldehyde is used in vat dyeing as?

A

Coloring agent

B

Dehydrating agents

C

Decolorizing agent

D

Solubilizing agent

89

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Q 91 Human body contains _____ kind of proteins ?

A 60000

B Almost 10000

C 5000

D 200

90

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Q 92

Which molar heat has higher ΔH value?

A

Heat of fusion

B

Heat of vapourization

C

Heat of sublimation

D

Heat of evaporation

91

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Q 93

Which of the following is a poor leaving group in nucleophilic substitution reactions?

A Cl^-

B Br^-

C I^-

D $^- \text{OH}$

92

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Q 94

Regular coiling & twisting of polypeptide chain caused by H-bonding in between NH & CO occurs in _____.

A Primary structure

B Secondary structure

C Tertiary structure

D Quaternary structure

93

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Q 95

The reaction in Galvanic Cell is

A

Spontaneous

B

nonspontaneous

C

Irreversible

D

endothermic

94

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Q 96

Which of the following isomerism is shown by alkynes?

A

Positional isomerism

B

Geometrical isomerism

C

Cis-trans isomerism

D

Functional group isomerism

95

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Q 97

How many electrons can an atom accommodate in L-shell

A

2

B

18

C

8

D

32

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Q 98

The molecule of water has structure

A

cubic

B

tetrahedral

C

trigonal

D

hexagonal system

97

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Q 99

The amount of energy evolved during the formation of hydrogen molecule is

A

436.45 KJ/mol

B

444.45 J/mol

C

436.45 J/mol

D

444.45 KJ/Mol

98

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Q 100

Crystal are obtained by Saturated Solution through

A

Sedimentation

B

Drying

C

Heating

D

Cooling

99

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Q 101

Phenol gives electrophilic substitution reactions due to?

A OH group

B Phenoxide ion

C Benzene ring

D All of these

100

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Q 102

At the start of a reaction, Concentration of reactants decreases

A

slowly

B

At constant rate

C

rapidly

D

exponentially

101

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Q 103

Knowledge obtain through thermodynamics is used to Explain which of the following property?

A Boiling point

B Chemical bonding

C Quantum study

D Physical properties

102

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Q 104 In IUPAC nomenclature, Carboxylic acids are named as_____?

A Alkoxy acid

B Alkanoic acid

C Alkyl carboxylic acid

D Alkoxylate acid

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Q 105

Which of the following reaction of carbonyl system is used to distinguish between carbonyl system from alcohols?

A Cyanohydrin formation

B Bisulfite adduct formation

C Haloform formation

D None of these

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Q 106

Non- protein part co- factor includes organic & metallic organic molecule & sometimes_____.

A

Vitamins

B

DNA

C

Coenzyme

D

None

105

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Q 107 Tautomerism involves the transfer of _____?

A Electron

B Carbon atom

C Functional group

D H-atom

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Q 108

According to modern theory of chemical bonding, atoms forms bond to ____

A increase energy

B decrease energy

C higher energy

D none of these

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Q 109

Which one of the following is an example of transition element?

A

Na

B

Co

C

Ba

D

Ra

108

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Q 110

The intermolecular forces brings the molecules close together and give them particular

A chemical properties

B physical properties

C composition

D nature

109

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Q 111

If a double bond is present between two carbons then this class of compounds is called as _____?

A

Alkanes

B

Alkynes

C

Carbonyl

D

Alkenes

110

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Q 112

Drawing a graph between concentration change with time gives a

A Straight line

B parabola

C Curve

D Scattered graph

111

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Q 113

 $K_p = K_c (RT)^{\Delta n}$, T stands for

A

Temperature

B

Absolute Temperature

C

Critical Temperature

D

All of these

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Q 114

The type of hybridization in diamond is

A

spherical

B

 sp^2

C

 sp^3

D

 $sp-sp$

113

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Q 115 In a vacuum distillation the boiling point of glycerin is reduced to_____?

A 290°C

B 110°C

C 156°C

D 210°C

114

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Q 116

According to _____ theory, atoms were the ultimate particles that cannot be divided further.

A

Bohr's

B

Rutherford's

C

Dalton's

D

cannizzaro's

115

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Q 117

If pressure is reduced to one half and temperature of a gas is doubled, what will be volume

A reduced 4 times

B increased 4 times

C remains same

D gets doubled

116

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Q 118 Calculate mass in grams of 8.694 moles of Ag_2CO_3

A 1417.53g

B 2399.544g

C 3456.78g

D 1231.98g

117

SKIPPED QUESTIONS 

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Next Question 

Q 119

d-block elements are called

A

coinage metals

B

noble metals

C

transition metals

D

alkali metals

118

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 120

The element caesium bears resemblance with

A

Ca

B

Cr

C

Both of the above

D

None of the above

119

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 121

During reduction of aldehydes with NaBH_4 , which of the following intermediate is formed ?

A

Carbanion

B

Carbocation

C

Carbene

D

Alkoxide ion

120

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 122

Freezing point of acetic acid;

A 16.6°C

B 18°C

C -20°C

D 10°C

121

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 123

Ethanol forms yellow crystal with iodine in the presence of

A

ZnCl_2

B

Cons H_2SO_4 at 14°C

C

NaOH

D

KOH

122

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 124

The bond b/w the two atoms is non polar ,if the E.N difference is

A

1.7

B

zero

C

1

D

2

123

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 125

The speed of sound in a metal is approximately:

A

1500 m/s

B

5000 m/s

C

330 m/s

D

50 m/s

124

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Q 126

What will be the product of beta decay of C-14?

A

C-14

B

N-14

C

O-14

D

Be-14

125

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 127

Which rays have highest ionizing power

A

alpha

B

beta

C

gamma

D

white

126

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 128

For given applied voltage, what will happen if we increase frequency of the applied voltage?

- A eddy current loss will decrease
- B eddy current loss will increase
- C eddy current loss will remain unchanged
- D none of these

127

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Q 129

Which of the following is equivalent to a temperature -150°C ?

A 123K

B -123 K

C 423 K

D -423 K

128

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 130

Work done by conservative force is

A

Reversible

B

Non reversible

C

can be both

D

none of them

129

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 131 The displacement between A and B is defined as:...

A change in position of an object from A to B

B any distance between two points

C longest distance from A to B

D longest distance between two points

130

SKIPPED QUESTIONS 

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Next Question 

Q 132

Isotopes means addition of additional _____ in same proton number

A

protons

B

electrons

C

neutrons

D

all of them

131

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 133

Which source is associated with a line emission spectrum

A

electric signal

B

neon street signal

C

red traffic light

D

signal

132

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 134

Watt-hour measures_____

A

current

B

electrical energy

C

power

D

voltage

133

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 135

The angular displacement is taken to be positive when the rotation is

A

linear

B

non-linear

C

clockwise

D

anti-clockwise

134

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 136

If a pipe is closed at one end and open at the other, the closed end is a:

A antinode

B node

C rarefaction

D crest

135

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 137 Heat reservoir is a _____ Temperature bath

A Constant

B Variable

C zero

D High

136

SKIPPED QUESTIONS 

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Q 138

What is the maximum electron energy in neutron beta decay?

A

783 eV

B

783 KeV

C

783 GeV

D

783 TeV

137

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 139

If the peak voltage is 9V, calculate the peak to peak voltage.

A

9V

B

18V

C

4.5V

D

0V

138

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 140

A circuit that adds positive or negative dc voltage to an input sine wave is called

A

Clamper

B

clipper

C

diode clamp

D

limiter

139

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 141

The half life of a radioactive substance is 5 min. The amount of substance decayed in 20 min will be

A

93.75 %

B

6.25 %

C

25 %

D

75 %

140

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 142

Peak voltage in the output of half wave rectifier is 10V so dc component of output voltage is

A $10\sqrt{2}$

B $10/\sqrt{2}$

C $10/\pi$

D 10π

141

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 143

If a nucleus release gamma rays its mass become

A

double

B

half

C

unchanged

D

quarter

142

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 144

If a charged particle moves through a magnetic field perpendicular to it

A both momentum and energy of particle change

B momentum as well as energy are constant

C energy is constant but momentum changes

D momentum is constant but energy changes

143

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 145

UV radiation is formed by bombarding gas molecules with

A electron

B protons

C alpha rays

D any of these

144

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 146

Blackbody shows a _____ spectra

A

continuous

B

discrete

C

both a) and b)

D

None of these

145

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 147 On a TS diagram which of the events have larger slope?

A isobaric process

B Isochoric process

C Isothermal process

D None of them

146

SKIPPED QUESTIONS 

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Q 148

A device that consumes electrical energy in the external circuit of generator is known as

A appliances

B machines

C motors

D load

147

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 149

Photocell is similar to

A photoelectric effect

B compton effect

C photoluminescence

D none of these

148

SKIPPED QUESTIONS 

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Next Question >

Q 150

Photocell is similar to

A photoelectric effect

B Compton effect

C photoluminescence

D none of these

149

SKIPPED QUESTIONS 

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Next Question >

Q 151 The radiotracers _____ the production of cancer cells

A increase

B decrease

C fix

D none of these

150

SKIPPED QUESTIONS 

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Next Question 

Q 152

Under what conditions of density and pressure does a real gas approximate to an ideal gas?

A density = high pressure = high

B density = low pressure = high

C density = high pressure = low

D density = low pressure = low

151

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 153

What is the formula for centripetal acceleration?

A

$$a = v/t$$

B

$$a = v/r$$

C

$$a = v^2/r$$

D

none of these

152

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 154

A capacitor of capacitance C is connected with resistance R . The time constant of the circuit would be:...

A RC

B R/C

C e^{RC}

D $R+C$

153

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Q 155

Horizontal velocity vs time graph for a projectile motion is

A

varies linearly

B

follows a parabolic path

C

is constant

D

is nonlinear

154

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 156

A constant force of $F = (i - 2j - 3k)$ causes a displacement $d = (2i - 5j + k)$, what will be the net work done if F in N and displacement is in meter

A 15 J

B 9 J

C 8 J

D 18 J

155

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 157

An immersion heater of 400 watts kept on for 5 hours will consume electrical power of

A 2KWh

B 20KWh

C 6KWh

D 12KWh

156

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Q 158

If a current of 5 Amperes flows through the conductor. The number of electrons per second will is

A

 1.6×10^{-19}

B

 3.12×10^{19}

C

 4×10^{19}

D

 7.68×10^{20}

157

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 159

The half-life of a radioactive substance is 40 years. How long will it take to reduce to one fourth of its original amount and what is the value of decay constant?

A 40 year, 0.9173/year

B 80 year, 0.0173 year

C 90 year, 9.017/year

D none of these

158

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 160

Electric generator converts _____ to _____ energy

A

electric, mechanical

B

mechanical , electric

C

mechanical , potential

D

not enough information

159

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 161

Work done is said to be negative if force and displacement are

A

parallel

B

perpendicular

C

anti parallel

D

none of these

160

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 162

A variable force $F = x$ is applied what will be the work done in moving the particle from $X = 0$ to 1

A 2 J

B 1 J

C 0.5 J

D 5 J

161

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 163

Solar spectra is a type of

A

continuous

B

discrete

C

both a) and b)

D

None of these

162

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 164

An oil film on water surface shows colors due to:....

A

diffraction

B

interference

C

dispersion

D

polarization

163

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 165

In a double slit experiment the second order maximum occurs at $\theta = 0.25^\circ$. The wavelength is 650 nm. Determine the slit separation

A 0.30 mm

B 0.30 cm

C 0.30 nm

D 0.30 m

164

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 166

In a stationary wave, the distance between two consecutive crests is:

A one wavelength

B $\frac{3}{4}$ wavelength

C $\frac{1}{2}$ wavelength

D $\frac{3}{2}$ wavelength

165

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Q 167

Isothermal process can be defined as:...

A

 $PV = \text{constant}$

B

 $PV = RT$

C

 $P / V = \text{constant}$

D

 $P / V = nRT$

166

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 168

A charge of $1\mu\text{C}$ is moving antiparallel to magnetic lines of force, then the magnetic force acting on charge is

A 0

B vB C $vB \sin \theta$ D qvB

167

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 169

Force on a static charge q in uniform electric field E is

A

qE

B

$-qE$

C

qE^2

D

$-qE^2$

168

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 170

Is it possible to separate north pole only from bar magnet

A

yes

B

no

C

in some cases it is possible

D

none of these

169

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 171

Ten complete waves passes through a point in 2 seconds. If the wavelength is 20 cm, what is the speed of the wave?

A 1 m/s

B 10 cm/s

C 2 m/s

D 40 cm/s

170

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Q 172

A car travels 30 m toward east, then it takes turn and travels 40 m towards west. It takes 50 seconds. Its average velocity is:....

A -10 m/s

B $-1/5$ m/s

C $7/5$ m/s

D -5 m/s

171

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 173

The energy input to an engine is 4.00 times greater than the work it performs. What is its thermal efficiency?

A 4.00

B 1.00

C 0.25

D impossible to determine

172

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Q 174

For ideal polyatomic gas molar specific heat is equal to

A

24.9 J/mol.K

B

12.9 J/mol.K

C

15 J/mol.K

D

16 J/mol.K

173

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Q 175

The electron is purely a ____ when free

A

particle nature

B

wave nature

C

dual nature

D

it transform to photon

174

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Q 176 In a rectifier, larger the value of shunt capacitor filter

- A larger the peak-to-peak value of ripple voltage
- B larger the peak current in the rectifying diode
- C longer the time that current pulse flows through the diode
- D smaller the dc voltage across the load

175

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Q 177

A first harmonic stationary sound wave is produced in the air of the cylinder, which is half filled with water. More water is added to the cylinder, now first harmonic stationary wave is produced with a different frequency. What is the change in frequency and the nature of displacement in air at the water surface?

A nature of displacement = antinode change in frequency = decrease

B nature of displacement = antinode change in frequency = increase

C nature of displacement = node change in frequency = increase

D nature of displacement = node change in frequency = decrease

176

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Q 178

Two equal and opposite charges separated by a small distance are said to constitute:....

A a magnetic dipole

B an electric dipole

C a couple

D an ion

177

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Q 179

A position dependent force $F = 7 - 2x + 3x^2$ N act on a body of mass 2 kg and displaces it from $x = 0$ to $x = 5$, the work done in joule is

A 70

B 270

C 35

D 135

178

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 180

A resistance of 40 Ohms is attached to a circuit having current of 300 Amp, Find its voltage.

A

12000 volts

B

15000 volts

C

20000 volts

D

300 volts

179

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of subject-verb agreement

Q 181

I _____ a letter yesterday.

A write

B wrote

C written

D will write

180

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Demonstrate control of tenses and sentence structure

Q 182

The earth _____ (seem) to be moving.

A

seem

B

seemed

C

seeming

D

seems

181

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Demonstrate control of tenses and sentence structure

Q 183

It _____ me a lot of money.

A costs

B cost

C costed

D is costing

182

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 184

I found the (A)/ two first chapters (B) /of the book (C)/ particularly interesting. (D)

A

I found the

B

two first chapters

C

of the book

D

particularly interesting.

183

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 185 Physics _____ difficult to understand.

A were

B are

C is

D have been

184

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 186

Choose the correct spelling of the word

A goas

B gose

C goes

D gois

185

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 187 she is

A shes

B shes'

C she's

D sh'es

186

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Next Question 

Demonstrate correct use of articles and prepositions

Q 188 I think _____ bread is stale.

A a

B an

C the

D no article

187

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate control of tenses and sentence structure

Q 189 "What are you doing here?" "I _____ TV."

A watching

B am watching

C is watching

D watches

188

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Next Question 

Comprehend key vocabulary

Q 190

genocide

A

murder of a family member

B

extermination of an entire race or nation

C

assassination of a king

D

self-destruction

189

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 191

Choose the correct spelling of the word

A servant

B servent

C sarvant

D sarvent

190

SKIPPED QUESTIONS 

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Next Question 

Comprehend key vocabulary

Q 192

My friends and I enjoy doing many of the same things. In that respect, we have a lot _____.

A in similar

B in particular

C in common

D in comparison

191

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Demonstrate control of tenses and sentence structure

Q 193

Which tense would you use for talking about the area where you live?

A

Present

B

past

C

future

D

none of these

192

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 194

Choose the correct sentence.

A

I can't see Tims car, there must have been an accident.

B

I can't see Tim's car, there must have been an accident.

C

I can't see Tims car there must have been an accident.

D

I can't see Tims car; there must have been an accident.

193

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Demonstrate control of tenses and sentence structure

Q 195

Find the error?

A

They talked through the entire movie.

B

The plants in this garden does not require much water.

C

She always brings turkey sandwiches for lunch.

D

No mistakes

194

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 196

He is a scientist (A)/ but out of (B)/ his three sons (C)/ neither have become scientists. (D)

A

He is a scientist

B

but out of

C

his three sons

D

neither have become scientists.

195

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 197 Both of you _____ the rules.

A knows

B knew

C no

D new

196

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Demonstrate control of tenses and sentence structure

Q 198 Zohaib _____ (throw) the bag out of the window.

A throw

B threw

C throwing

D was throwing

197

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Comprehend key vocabulary

Q 199 Further research is needed to find out what side this pill has on a person's digestive system.

A affects

B effects

C defects

D suspects

198

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of articles and prepositions

Q 200

_____ man is mortal.

A

A

B

An

C

The

D

No article

199

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Statements and conclusions

Q 201

Statements : All film stars are playback singers. All film directors are film stars. Conclusions : I. All film directors are playback singers. II. Some film stars are film directors.

A Only conclusion II follows

B Either I or II follows

C Neither I nor II follows

D Both I and II follow

200

SKIPPED QUESTIONS  Previous QuestionNext Question 

Statements and Actions

Q 202

Statement The ratio is poverty is at alarming point in our country. I. The Government needs to take step for economic and development growth. II. The lower class area of people in our country needs to be supported as most of them lives hand to mouth.

A Both of them follows

B None of them follows

C Only I follows

D Only b follows

201

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Verbal Classification

Q 203

Epicentre is related to

A

Cyclone

B

Volcano

C

Earthquake

D

Both A and B

202

SKIPPED QUESTIONS  Previous QuestionNext Question 

Verbal Classification

Q 204

Who won the Wimbledon Men's Singles Tennis Title?

A

Roger Federer

B

Novak Djokovic

C

Rafael Nadal

D

Both A and B

203

SKIPPED QUESTIONS  Previous QuestionNext Question 

Logical Games

Q 205

In the following letter series, some of the letters are missing, which are given in that order as one of the alternatives below it. Choose the correct alternatives

A cbc**b**B b**b**cbC cb**b**cD bc**b**c

204

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Dependent Causes/ Independent Causes/

Q 206

I. Since Amna's baby died at birth, she wanted another immediately. II. Amna abducted the infant and took it out of the hospital.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

205

SKIPPED QUESTIONS  Previous QuestionNext Question 

Statements and Actions

Q 207

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

206

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Verbal Classification

Q 208

Chef: Restaurant

A

Doctor: Nurse

B

Driver: Passenger

C

Teacher: Schools

D

Writer: Editor

207

SKIPPED QUESTIONS  Previous QuestionNext Question 

Dependent Causes/ Independent Causes/

Q 209

Statement: The performance of most of the students in final exam of class X in the schools run by the government was excellent. Many teachers of government schools left the school and joined private schools.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

208

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Answer on Passage

Q 210

The high school math department needs to appoint a new chairperson, which will be based on seniority. Ms. West has less seniority than Mr. Temple, but more than Ms. Brody. Mr. Rhodes has more seniority than Ms. West, but less than Mr. Temple. Mr. Temple doesn't want the job. Who will be the new math department chairperson?

A Mr. Rhodes

B Mr. Temple

C Mr. West

D Mr. brody

209

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Question 1/210

Q1

One similarity between annelids and arthropods:

A

Closed circulatory system.

B

Nitrogenous waste product is uric acid.

C

Ventral nerve cord.

D

None of the above.

◀ Previous Question

Next Question ▶



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Question 2/210

Q2 Photosystems are located in _____.

A Stroma

B Chloroplast envelope

C Thylakoid membranes

D The intergrana

Previous Question

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Question 3/210

Q3 Which of the following plays the major role in providing support to young herbaceous parts of the plant?

A higher turgor pressure

B cortex and pith with higher turgor pressure

C Collenchyma cells

D all of these

Previous Question

Next Question



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Question 4/210

Q4

Monosynaptic refers to the presence of how many chemical synapse/s?

A

1

B

2

C

3

D

4

 Previous Question

Next Question 



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Question 5/210

Q5

The affect of genetic drift increases as the population size?

A

increases

B

decreased

C

remains same

D

none of these

 Previous Question

Next Question 



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Question 6/210

Q6 In mammals that are seasonal breeders, females are receptive only once a year. This is known as

A follicular cycle

B estrous cycle

C luteal cycle

D menstrual cycle

Previous Question

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Question 7/210

Q7

Ribose is an example of which of the following?

A

Trioses

B

Pentoses

C

Tetroses

D

Hexoses

Previous Question

Next Question



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Question 8/210

Q8

The number of spermatids produced from primary spermatocytes is?

A

1

B

2

C

3

D

4

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Next Question



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Question 9/210

Q9 Where does the bacteriophage replicate?

A Human

B Animal

C Bacteria

D Horse

◀ Previous Question

Next Question ▶



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Question 10/210

Q10

Which of the following structure provides greater pathogenicity to the bacteria?

A

slime

B

cell wall

C

cell membrane

D

capsule

 Previous Question

Next Question 



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Question 11/210

Q11

The ability to pass on genes is defined as which of the following?

A

differential reproduction

B

evolution

C

natural selection

D

fitness

 Previous Question

Next Question 



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Question 12/210

Q12

In mixed inhibition, the allosteric affect effects

A

shape of substrate

B

shape of inhibitor

C

shape of enzyme

D

none of these

 Previous Question

Next Question 



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Question 13/210

Q13

Which one is not an energy releasing process?

A

Glycolysis

B

Photosynthesis

C

Respiration

D

Krebs Cycle

Previous Question

Next Question



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Question 14/210

Q14

The spinal cord acts as a link between body parts and ---

A

brain

B

skull

C

heart

D

lungs

 Previous Question

Next Question 



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Question 15/210

Q15

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

 Previous Question

Next Question 



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Question 16/210

Q16

The set of all genes in any population is termed as?

A

population pool

B

species pool

C

gene pool

D

all of these

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Question 17/210

Q17

Coelom is lined by which of the following?

A

Parietal mesoderm

B

Visceral mesoderm

C

Mesoderm

D

both a and b

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Question 18/210

Q18

The part of chloroplast where CO₂ is fixed to manufacture sugar is?

A

stroma

B

grana

C

thylakoid

D

outer membrane

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Question 19/210

Q19

Which of the light is mainly absorbed by the plants?

A

Orange

B

Red

C

Green

D

Both A and B

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Question 20/210

Q20

Smooth muscles, cardiac muscles and organs are regulated by which of the following?

A

Central nervous system

B

Parasympathetic nervous system

C

Sympathetic nervous system

D

Autonomic system

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Question 21/210

Q21

According to Ivanovski what are soluble living germs

A

Bacteria

B

Viruses

C

Fungi

D

Both A and B

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Question 22/210

Q22

Cortisol brings about an increase in blood glucose level mainly by its production from protein and by?

A

glucagon

B

estrogen

C

insulin

D

progesterone

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Question 23/210

Q23

What is the shape of the TMV Virus?

A

rod

B

spherical

C

tadpole

D

helical

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Question 24/210

Q24

When was the agent causing AIDs discovered?

A

1994

B

1984

C

1950

D

1920

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Q25

Which of the following statements explains why viruses are only able to multiply in living cells?

A

Their binary fission is controlled by host cell genes

B

Virus do not possess the necessary components for self-replication

C

DNA is only able to replicate inside living cells

D

They have only enough genetic information for DNA replication



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Question 26/210

Q26

The body of which of the following organism is globular?

A

cake urchin

B

sea urchin

C

sea cucumber

D

brittle star

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Question 27/210

Q27

If we add more substrate to already occurring enzymatic reaction and it has no affect on the rate of reaction, the process is called?

A

denaturation

B

composition

C

inhibition

D

saturation

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Question 27/210

Q27

If we add more substrate to already occurring enzymatic reaction and it has no affect on the rate of reaction, the process is called?

A

denaturation

B

composition

C

inhibition

D

saturation

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Question 28/210

Q28

The outer body wall of sponges is made up of which cells?

A

Choanocytes

B

Pinacocytes

C

Mesenchymal cells

D

Cnidocytes

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Q29

How does inbreeding negatively impact a population?

A

the frequency of alleles does not change within the population.

B

It reduces the number heterozygous individuals, preventing beneficial alleles from being efficiently selected for.

C

increases the number of homozygous individuals, allowing potentially harmful recessive alleles to express themselves more frequently.

D

all of these



Search topic, syllabus, test questions



Question 30/210

Q30

Myoglobin protein present in muscles of human body is a ____ protein

A

globular protein

B

plated protein

C

tertiary protein

D

quaternary protein

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Q31

Vertebrates are evolutionarily adapted to terrestrial life. Which one of the following adaptations is LEAST likely to contribute to this land-based predominance?

A

Internal fertilization

B

Impermeable outer skin

C

Development of legs

D

Short loops of Henle



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Question 32/210

Q32

Which of the following characters of pea plant is dominant?

A

Yellow pods

B

White flowers

C

Wrinkled seeds

D

Axial flowers

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Question 33/210

Q33

Which of the following is a unique characteristic of prokaryotic cells?

A

Lack of a cytoplasm

B

Presence of a cell wall

C

Inability to create proton gradients

D

mRNA translation simultaneous to transcription

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Question 34/210

Q34

A man with type AB blood marries a woman with type A blood. Which of the following blood types might their sons inherit?

A

Type A or type O

B

Type B or type O

C

Type AB only

D

Type A, type B, or type AB

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Question 35/210

Q35

In the peripheral nervous system, the nerves that arise from spinal cord and brain are called?

A

cranial nerves

B

spinal nerves

C

frontal nerves

D

both a and b

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Question 36/210

Q36

Haemophilia B is due to abnormality of factor?

A

VIII

B

X

C

IX

D

XI

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Question 37/210

Q37

Which of the following organelle is involved in the release of oxygen?

A

mitochondria

B

chloroplast

C

glyoxysome

D

both a and b

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Question 38/210

Q38

Name the first part of small intestine.

A

Duodenum

B

Jejunum

C

Ileum

D

Both A and B

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Question 39/210

Q39

External male genitalia are:

A

a pair of testes

B

seminephorous tubules

C

male copulatory organ

D

Both A and C

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Question 40/210

Q40

The flow of lymph is always towards ----

A

pancreatic duct

B

bile duct

C

thoracic duct

D

parotid duct

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Question 42/210

Q42

What is the coenzyme that facilitates the oxidation of fumarate?

A

FAD

B

PADH2

C

NAD

D

NADPH

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Question 43/210

Q43

What is the first step in the replication of bacteriophage?

A

replication

B

penetration

C

attachment

D

injection

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Question 44/210

Q44

The process which requires energy:

A

Diffusion

B

Facilitated diffusion

C

Osmosis

D

active transport

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Question 45/210

Q45

The largest organelle in a mature living plant cell is?

A

chloroplast

B

nucleus

C

central vacuole

D

mitochondria

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Question 46/210

Q46

The total gestation period (pregnancy) is usually about:

A

28 days

B

250 days

C

280 days

D

300 days

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Question 47/210

Q47

The muscle contraction depends on:

A

Nerve impulse

B

energy

C

calcium

D

All of these

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Question 48/210

Q48

What is the human breathing rate during hard physical work?

A

10 to 15 times per minute

B

10 to 20 times per minute

C

80 to 120 times per minute

D

30-40 times per minute

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Q49

During aristotle time, it was thought that

A

oranism ranged from simple to complex

B

one type of organism give rise to another type of organism

C

both a & b

D

all living things specially created by nature



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Question 50/210

Q50

The reversible inhibitors usually constitute which of the following?

A

No Linkage with enzyme

B

Strong linkage with enzyme

C

medium linkage

D

Weak linkage with enzyme

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Question 51/210

Q51

Which of the following genetic diseases is caused by mutations in a membrane protein?

A

Alzheimer's disease

B

Parkinson's disease

C

Anemia

D

Hemolytic anemia

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Question 52/210

Q52

The experiment that simulated conditions thought to be present on the early earth

A

Hershey Chase experiment

B

Geiger Marsden experiment

C

Schiehallion experiment

D

Miller-Urey experiment

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Question 53/210

Q53

Metacarpophalangeal joints are examples of:

A

Saddle joint

B

Condyloid joint

C

Ball and socket joint

D

Hinge joint

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Question 54/210

Q54

Where does energy production take place in bacteria that can perform aerobic metabolism?

A

Nucleus

B

Plasma membrane

C

Inclusion Bodies

D

Mitochondria

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Question 55/210

Q55

Which of these functions will be affected if the medulla oblongata is damaged?

A

Thermoregulation

B

Vision

C

Memory

D

Tactile sensation-response when pricked with a needle

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Question 56/210

Q56

When a female ovulates, in what phase of division is the oocyte?

A

Anaphase I

B

Prophase I

C

Metaphase I

D

Metaphase II

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Question 57/210

Q57

Which molecule passes the mitochondrial membrane to begin the krebs cycle?

A

ATP

B

ADP

C

NADH

D

Acetyl coA

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Question 58/210

Q58

Notochord occurs throughout life and all through the length of the body in which of the following?

A

Hemichordata

B

Urochordata

C

Vertebrata

D

Cephalochordata

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Q59

All of the following statements are true regarding the attachment or adsorption of the virion to the host cell EXCEPT that:

- A for naked virions, the surface capsid proteins are responsible for binding to a specific cell receptor.
- B for enveloped viruses, the spikes are responsible for binding to a specific cell receptor.
- C cell lacking a receptor for a specific virus is not infected by that virus.
- D All of the above



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Question 60/210

Q60

For attachment, rabies virus binds to a

A

complement receptor

B

integrin ICAM-1

C

acetylcholin

D

epidermal growth factor

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Question 61/210

Q61

The stomata are closed at which of the following temperature? (In centigrade)

A

45

B

35

C

15

D

25

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Question 62/210

Q62

Which of the following is NOT a class of enzyme?

A

ligase

B

hydrolyse

C

isomerase

D

pyrimidine complex

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Q63

The end product of an enzymatic reaction inhibits formation of product in an earlier step. This type of enzymatic regulation is known as ?

A

allosteric regulation

B

negative regulation

C

metabolic pathway loop

D

feedback inhibition



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Question 64/210

Q64

The auditory relay center is found in:

A

Corpus callosum

B

Hindbrain

C

Forebrain

D

Midbrain

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Q65

Which one of the following statements is incorrect?

A

Eggs in the ovaries ripen when they meet a sperm

B

Girls are born with thousands of eggs in their ovaries.

C

Hormones control the release of the egg from the ovary.

D

One egg is released from the ovary about every month.



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Question 66/210

Q66

Ethene is prepared from alcohol by_____?

A

Decomposition

B

Dehydration

C

Dehydroxylation

D

Dehalogenation

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Q67

Which type of organic compounds are present in natural gas?

A

High molecular mass

B

Low molecular mass

C

Low boiling point

D

Both b and c



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Question 68/210

Q68

Aldehydes are present in natural oils that are used as?

A

Flavours

B

Fragrances

C

Both a and b

D

Sugars

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Q69 Transition elements form complexes because_____?

A They have empty d orbitals

B They show variable oxidation states

C Both a and b

D They have strong bonding

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Question 70/210

Q70

The shielding effect _____ from left to right in a period

A

decreases

B

increases

C

remains same

D

no change

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Question 71/210

Q71

Under the microscope, the bacteria appear a bluish-purple color. Which class of bacteria are on the slide?

A

gram positive

B

gram negative

C

both a and b

D

none of these

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Q72

Extreme change in pH results in which of the following?

A

Change in ionization of amino acids at the active site of the enzyme

B

Change in the ionization of the substrate

C

Increase in the reaction rate

D

Denaturation of the enzyme



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Question 73/210

Q73

Photocell is similar to

A

photoelectric effect

B

compton effect

C

photoluminescence

D

none of these

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Q74

Which of the following is correct about IUPAC naming of carboxylic acid?

A

In the parent name COOH position is not mentioned

B

COOH is written as substituent and position is mentioned

C

COOH is given 1st position in all carboxylic acid

D

Both a and c



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Question 75/210

Q75

The reactions that needs energy are called as___?

A

Endothermic reactions

B

Exothermic reactions

C

Exergonic reactions

D

Heat releasing reactions

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Question 76/210

Q76

$\text{S}_{\text{N}}1$ reaction is a _____?

A

Multistep reaction

B

Two step reaction

C

Concerted reaction

D

3 step reaction

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Question 77/210

Q77

Enzymes that catalyze hydrolysis:

A

Oxidoreductase

B

Hydrolases

C

Ligases

D

Transferases

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Question 78/210

Q78

The intermolecular forces are very weak in

A

solids

B

liquids

C

gases

D

all of these

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Question 79/210

Q79

The molar volume of CO_2 is maximum at

A

273 C & 2 atm

B

c and 1 atm

C

STP

D

127 C & 1 atm

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Q80

Which of the following reaction does acetylene give due to its acidic hydrogens?

A

Ozonolysis

B

Hydroxylation

C

Acetylide formation

D

Kolbe's electrolysis

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Question 81/210

Q81

Cl-Cl Bond distance is is 5.63 Å, While Na-Cl bond distance is

A

Half of 5.63

B

double to 5.63

C

5.63

D

None of these

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Question 82/210

Q82

Which one is for evaporation

A

surface phenomena

B

cause cooling

C

exothermic

D

continuous

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Question 83/210

Q83

Carboxylic acids are formed by the hydrolysis of _____?

A

Ester, Nitriles

B

Nitriles, amines

C

Alkenes, Alkynes

D

Esters, Alcohols

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Question 84/210

Q84

Aldehydes are converted into _____ when undergoes Wolff Kishner reduction?

A

Alkenes

B

Alkanes

C

Alkynes

D

Alcohols

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Question 85/210

Q85

The order of reaction for which half-life is inversely proportional to the concentration of reaction is

A

Second Order

B

Zero Order

C

First Order

D

Third Order

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Question 86/210

Q86

For the identification of isotopes of elements having solid state

A

Aston spectrometer

B

dempster's mass spectrometer

C

Soddy mass spectrometer

D

atomic spectrometer

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Question 87/210

Q87

Human body contains _____ kind of proteins ?

A

60000

B

Almost 10000

C

5000

D

200

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Question 88/210

Q88

Which molar heat has higher ΔH value?

A

Heat of fusion

B

Heat of vapourization

C

Heat of sublimation

D

Heat of evaporation

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Question 89/210

Q89

Which of the following is a poor leaving group in nucleophilic substitution reactions?

A

Cl^-

B

Br^-

C

I^-

D

^-OH

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Q90

Regular coiling & twisting of polypeptide chain caused by H-bonding in between NH & CO occurs in ____.

A

Primary structure

B

Secondary structure

C

Tertiary structure

D

Quaternary structure

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Question 91/210

Q91

The reaction in Galvanic Cell is

A

Spontaneous

B

nonspontaneous

C

Irreversible

D

endothermic

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Question 92/210

Q92

Which of the following isomerism is shown by alkynes?

A

Positional isomerism

B

Geometrical isomerism

C

Cis-trans isomerism

D

Functional group isomerism

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Question 93/210

Q93

How many electrons can an atom accommodate in L-shell

A

2

B

18

C

8

D

32

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Question 94/210

Q94

The amount of energy evolved during the formation of hydrogen molecule is

A

436.45 KJ/mol

B

444.45 J/mol

C

436.45 J/mol

D

444.45 KJ/Mol

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Question 95/210

Q95

Crystal are obtained by Saturated Solution through

A

Sedimentation

B

Drying

C

Heating

D

Cooling

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Question 96/210

Q96

Phenol gives electrophilic substitution reactions due to?

A

OH group

B

Phenoxide ion

C

Benzene ring

D

All of these

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Question 97/210

Q97

At the start of a reaction, Concentration of reactants decreases

A

slowly

B

At constant rate

C

rapidly

D

exponentially

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Question 98/210

Q98

Knowledge obtain through thermodynamics is used to Explain which of the following property?

A

Boiling point

B

Chemical bonding

C

Quantum study

D

Physical properties

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Q99

In IUPAC nomenclature, Carboxylic acids are named as_____?

A

Alkoxy acid

B

Alkanoic acid

C

Alkyl carboxylic acid

D

Alkoxyate acid

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Question 100/210

Q100

Which of the following reaction of carbonyl system is used to distinguish between carbonyl system from alcohols?

A

Cyanohydrin formation

B

Bisulfite adduct formation

C

Haloform formation

D

None of these

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Question 101/210

Q101

Non- protein part co- factor includes organic & metallic organic molecule & sometimes_____.

A

Vitamins

B

DNA

C

Coenzyme

D

None

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Q102

According to modern theory of chemical bonding, atoms forms bond to ____

A

increase energy

B

decrease energy

C

higher energy

D

none of these

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Question 103/210

Q103

Which one of the following is an example of transition element?

A

Na

B

Co

C

Ba

D

Ra

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Question 104/210

Q104

The intermolecular forces brings the molecules close together and give them particular

A

chemical properties

B

physical properties

C

composition

D

nature

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Question 105/210

Q105

If a double bond is present between two carbons then this class of compounds is called as_____?

A

Alkanes

B

Alkynes

C

Carbonyl

D

Alkenes

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Question 106/210

Q106

Drawing a graph between concentration change with time gives a

A

Straight line

B

parabola

C

Curve

D

Scattered graph

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Question 107/210

Q107

$K_p = K_c (RT)^{\Delta n}$, T stands for

A

Temperature

B

Absolute Temperature

C

Critical Temperature

D

All of these

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Question 108/210

Q108

The type of hybridization in diamond is

A

spherical

B

sp²

C

sp³

D

sp-sp

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Question 109/210

Q109

According to _____ theory, atoms were the ultimate particles that cannot be divided further.

A

Bohr's

B

Rutherford's

C

Dalton's

D

cannizzaro's

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Question 110/210

Q110

If pressure is reduced to one half and temperature of a gas is doubled, what will be volume

A

reduced 4 times

B

increased 4 times

C

remains same

D

gets doubled

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Question 111/210

Q111

Calculate mass in grams of 8.694 moles of Ag_2CO_3

A

1417.53g

B

2399.544g

C

3456.78g

D

1231.98g

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Question 112/210

Q112

d-block elements are called

A

coinage metals

B

noble metals

C

transition metals

D

alkali metals

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Question 113/210

Q113

The element caesium bears resemblance with

A

Ca

B

Cr

C

Both of the above

D

None of the above

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Question 114/210

Q114

During reduction of aldehydes with NaBH_4 , which of the following intermediate is formed ?

A

Carbanion

B

Carbocation

C

Carbene

D

Alkoxide ion

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Question 115/210

Q115

Freezing point of acetic acid;

A

16.6°C

B

18°C

C

-20°C

D

10°C

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Question 116/210

Q116

The bond b/w the two atoms is non polar ,if the E.N difference is

A

1.7

B

zero

C

1

D

2

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Question 118/210

Q118

What will be the product of beta decay of C-14?

A

C-14

B

N-14

C

O-14

D

Be-14

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Question 117/210

Q117

The speed of sound in a metal is approximately:

A

1500 m/s

B

5000 m/s

C

330 m/s

D

50 m/s

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Question 119/210

Q119

Which rays have highest ionizing power

A

alpha

B

beta

C

gamma

D

white

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Question 120/210

Q120

For given applied voltage, what will happen if we increase frequency of the applied voltage?

A

eddy current loss will decrease

B

eddy current loss will increase

C

eddy current loss will remain unchanged

D

none of these

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Question 121/210

Q121

Which of the following is equivalent to a temperature -150°C ?

A

123K

B

-123 K

C

423 K

D

-423 K

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Question 122/210

Q122

Work done by conservative force is

A

Reversible

B

Non reversible

C

can be both

D

none of them

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Question 123/210

Q123

The displacement between A and B is defined as:...

A

change in position of an object from A to B

B

any distance between two points

C

longest distance from A to B

D

longest distance between two points

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Question 124/210

Q124

Which source is associated with a line emission spectrum

A

electric signal

B

neon street signal

C

red traffic light

D

signal

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Question 125/210

Q125

Watt-hour measures_____

A

current

B

electrical energy

C

power

D

voltage

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Question 126/210

Q126

The angular displacement is taken to be positive when the rotation is

A

linear

B

non-linear

C

clockwise

D

anti-clockwise

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Question 127/210

Q127

If a pipe is closed at one end and open at the other, the closed end is a:

A

antinode

B

node

C

rarefaction

D

crest

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Question 128/210

Q128

Heat reservoir is a _____ Temperature bath

A

Constant

B

Variable

C

zero

D

High

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Question 129/210

Q129

What is the maximum electron energy in neutron beta decay?

A

783 eV

B

783 KeV

C

783 GeV

D

783 Tev

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Question 130/210

Q130

If the peak voltage is 9V, calculate the peak to peak voltage.

A

9V

B

18V

C

4.5V

D

0V

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Question 131/210

Q131

The half life of a radioactive substance is 5 min. The amount of substance decayed in 20 min will be

A

93.75 %

B

6.25 %

C

25 %

D

75 %

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Question 132/210

Q132

Peak voltage in the output of half wave rectifier is 10V so dc component of output voltage is

A

$$10\sqrt{2}$$

B

$$10/\sqrt{2}$$

C

$$10/\pi$$

D

$$10\pi$$

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Question 133/210

Q133

If a nucleus release gamma rays its mass become

A

double

B

half

C

unchanged

D

quarter

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Q134

If a charged particle moves through a magnetic field perpendicular to it

A

both momentum and energy of particle change

B

momentum as well as energy are constant

C

energy is constant but momentum changes

D

momentum is constant but energy changes



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Question 135/210

Q135

UV radiation is formed by bombarding gas molecules with

A

electron

B

protons

C

alpha rays

D

any of these

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Question 136/210

Q136

Blackbody shows a _____ spectra

A

continuous

B

discrete

C

both a) and b)

D

None of these

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Question 137/210

Q137 On a TS diagram which of the events have larger slope?

A isobaric process

B Isochoric process

C Isothermal process

D None of them

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Question 138/210

Q138 The radiotracers _____ the production of cancer cells

A increase

B decrease

C fix

D none of these

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Q139

Under what conditions of density and pressure does a real gas approximate to an ideal gas?

A

density = high pressure = high

B

density = low pressure = high

C

density = high pressure = low

D

density = low pressure = low



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Question 140/210

Q140

What is the formula for centripetal acceleration?

A

$a = v/t$

B

$a = v/r$

C

$a = v^2/r$

D

none of these

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Question 141/210

Q141

A capacitor of capacitance C is connected with resistance R . The time constant of the circuit would be:...

A

RC

B

R/C

C

e^{RC}

D

$R+C$

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Question 142/210

Q142

Horizontal velocity vs time graph for a projectile motion is

A

varies linearly

B

follows a parabolic path

C

is constant

D

is nonlinear

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Question 143/210

Q143

A constant force of $F = (i - 2j - 3k)$ causes a displacement $d = (2i - 5j + k)$, what will be the net work done if F is in N and displacement is in meter

A

15 J

B

9 J

C

8 J

D

18 J

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Question 144/210

Q144

An immersion heater of 400 watts kept on for 5 hours will consume electrical power of

A

2KWh

B

20KWh

C

6KWh

D

12KWh

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Question 145/210

Q145

If a current of 5 Amperes flows through the conductor. The number of electrons per second will is

A

1.6×10^{-19}

B

3.12×10^{19}

C

4×10^{19}

D

7.68×10^{20}

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Question 146/210

Q146

Electric generator converts _____ to _____ energy

A

electric, mechanical

B

mechanical , electric

C

mechanical , potential

D

not enough information

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Question 147/210

Q147

Work done is said to be negative if force and displacement are

A

parallel

B

perpendicular

C

anti parallel

D

none of these

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Question 148/210

Q148

A variable force $F = x$ is applied what will be the work done in moving the particle from $X = 0$ to 1

A

2 J

B

1 J

C

0.5 J

D

5 J

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Question 149/210

Q149

Solar spectra is a type of

A

continuous

B

discrete

C

both a) and b)

D

None of these

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Question 150/210

Q150

An oil film on water surface shows colors due to:....

A

diffraction

B

interference

C

dispersion

D

polarization

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Q151

In a double slit experiment the second order maximum occurs at $\theta = 0.25^\circ$. The wavelength is 650 nm. Determine the slit separation

A

0.30 mm

B

0.30 cm

C

0.30 nm

D

0.30 m

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Question 152/210

Q152

In a stationary wave, the distance between two consecutive crests is:

A

one wavelength

B

$\frac{3}{4}$ wavelength

C

$\frac{1}{2}$ wavelength

D

$\frac{3}{2}$ wavelength

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Question 153/210

Q153

Isothermal process can be defined as:...

A

$PV = \text{constant}$

B

$PV = RT$

C

$P / V = \text{constant}$

D

$P / V = nRT$

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Question 154/210

Q154

A charge of $1\mu\text{C}$ is moving antiparallel to magnetic lines of force, then the magnetic force acting on charge is

A

0

B

vB

C

$vB \sin \theta$

D

qvB

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Question 155/210

Q155

Force on a static charge q in uniform electric field E is

A

qE

B

$-qE$

C

qE^2

D

$-qE^2$

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Question 156/210

Q156

Is it possible to separate north pole only from bar magnet

A

yes

B

no

C

in some cases it is possible

D

none of these

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Question 157/210

Q157

Ten complete waves passes through a point in 2 seconds. If the wavelength is 20 cm, what is the speed of the wave?

A

1 m/s

B

10 cm/s

C

2 m/s

D

40 cm/s

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Q158

A car travels 30 m toward east, then it takes turn and travels 40 m towards west. It takes 50 seconds. Its average velocity is:....

A -10 m/s

B -1/5 m/s

C 7/5 m/s

D -5 m/s

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Question 159/210

Q159

The energy input to an engine is 4.00 times greater than the work it performs. What is its thermal efficiency?

A

4.00

B

1.00

C

0.25

D

impossible to determine

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Question 160/210

Q160

For ideal polyatomic gas molar specific heat is equal to

A

24.9 J/mol.K

B

12.9 J/mol.K

C

15 J/mol.K

D

16 J/mol.K

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Question 161/210

Q161

The electron is purely a ____ when free

A

particle nature

B

wave nature

C

dual nature

D

it transform to photon

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Q162

In a rectifier, larger the value of shunt capacitor filter

A

larger the peak-to-peak value of ripple voltage

B

larger the peak current in the rectifying diode

C

longer the time that current pulse flows through the diode

D

smaller the dc voltage across the load



Q163

A first harmonic stationary sound wave is produced in the air of the cylinder, which is half filled with water. More water is added to the cylinder, now first harmonic stationary wave is produced with a different frequency. What is the change in frequency and the nature of displacement in air at the water surface?

A

nature of displacement = antinode change in frequency = decrease

B

nature of displacement = antinode change in frequency = increase

C

nature of displacement = node change in frequency = increase

D

nature of displacement = node change in frequency = decrease



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Question 164/210

Q164

Two equal and opposite charges separated by a small distance are said to constitute:....

A

a magnetic dipole

B

an electric dipole

C

a couple

D

an ion

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Question 165/210

Q165

A position dependent force $F = 7 - 2x + 3x^2$ N act on a body of mass 2 kg and displaces it from $x = 0$ to $x = 5$, the work done in joule is

A 70

B 270

C 35

D 135

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Question 166/210

Q166

A resistance of 40 Ohms is attached to a circuit having current of 300 Amp, Find its voltage.

A

12000 volts

B

15000 volts

C

20000 volts

D

300 volts

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Question 167/210

Q167

I _____ a letter yesterday.

A

write

B

wrote

C

written

D

will write

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Question 168/210

Q168

The earth _____ (seem) to be moving.

A

seem

B

seemed

C

seeming

D

seems

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Question 169/210

Q169 It _____ me a lot of money.

A costs

B cost

C costed

D is costing

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Question 170/210

Q170

I found the (A)/ two first chapters (B) /of the book (C)/ particularly interesting. (D)

A

I found the

B

two first chapters

C

of the book

D

particularly interesting.

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Question 171/210

Q171 Physics _____ difficult to understand.

A were

B are

C is

D have been

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Question 172/210

Q172

Choose the correct spelling of the word

A

goas

B

gose

C

goes

D

gois

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Question 173/210

Q173

she is

A

shes

B

shes'

C

she's

D

sh'es

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Question 174/210

Q174

I think _____ bread is stale.

A

a

B

an

C

the

D

no article

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Question 175/210

Q175 "What are you doing here?" "I _____ TV."

A watching

B am watching

C is watching

D watches

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Question 176/210

Q176

genocide

A

murder of a family member

B

extermination of an entire race or nation

C

assassination of a king

D

self-destruction

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Question 177/210

Q177

Choose the correct spelling of the word

A

servant

B

servent

C

sarvant

D

sarvent

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Question 178/210

Q178

My friends and I enjoy doing many of the same things. In that respect, we have a lot _____.

A

in similar

B

in particular

C

in common

D

in comparison

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Question 179/210

Q179

Which tense would you use for talking about the area where you live?

A

Present

B

past

C

future

D

none of these

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Q180

Choose the correct sentence.

A

I can't see Tims car, there must have been an accident.

B

I can't see Tim's car, there must have been an accident.

C

I can't see Tims car there must have been an accident.

D

I can't see Tims car; there must have been an accident.



Q181 Find the error?

A They talked through the entire movie.

B The plants in this garden does not require much water.

C She always brings turkey sandwiches for lunch.

D No mistakes



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Question 182/210

Q182

He is a scientist (A)/ but out of (B)/ his three sons (C)/ neither have become scientists. (D)

A

He is a scientist

B

but out of

C

his three sons

D

neither have become scientists.

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Question 183/210

Q183

Both of you _____ the rules.

A

knows

B

knew

C

no

D

new

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Question 184/210

Q184 Zohaib _____ (throw) the bag out of the window.

A throw

B threw

C throwing

D was throwing

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Question 185/210

Q185

Further research is needed to find out what side this pill has on a person's digestive system.

A

affects

B

effects

C

defects

D

suspects

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Question 186/210

Q186

_____ man is mortal.

A

A

B

An

C

The

D

No article

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Question 187/210

Q187

Statements : All film stars are playback singers. All film directors are film stars. Conclusions : I. All film directors are playback singers. II. Some film stars are film directors.

A

Only conclusion II follows

B

Either I or II follows

C

Neither I nor II follows

D

Both I and II follow

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Q188

Statement The ratio is poverty is at alarming point in our country. I. The Government needs to take step for economic and development growth. II. The lower class area of people in our country needs to be supported as most of them lives hand to mouth.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only b follows

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Question 189/210

Q189

Epicentre is related to

A

Cyclone

B

Volcano

C

Earthquake

D

Both A and B

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Question 190/210

Q190

Who won the Wimbledon Men's Singles Tennis Title?

A

Roger Federer

B

Novak Djokovic

C

Rafael Nadal

D

Both A and B

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Question 191/210

Q191

In the following letter series, some of the letters are missing, which are given in that order as one of the alternatives below it. Choose the correct alternatives

A

cbcb

B

bbcb

C

cbbc

D

bcbc

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Q192

I. Since Amna's baby died at birth, she wanted another immediately. II. Amna abducted the infant and took it out of the hospital.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.



Q193

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows



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Question 194/210

Q194

Chef: Restaurant

A

Doctor: Nurse

B

Driver: Passenger

C

Teacher: Schools

D

Writer: Editor

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Q195

Statement: The performance of most of the students in final exam of class X in the schools run by the government was excellent. Many teachers of government schools left the school and joined private schools.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes



Q196

The high school math department needs to appoint a new chairperson, which will be based on seniority. Ms. West has less seniority than Mr. Temple, but more than Ms. Brody. Mr. Rhodes has more seniority than Ms. West, but less than Mr. Temple. Mr. Temple doesn't want the job. Who will be the new math department chairperson?

A

Mr. Rhodes

B

Mr. Temple

C

Mr. West

D

Mr. brody



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Question 197/210

Q197

Amino acids are arranged in proper sequence during protein synthesis according to the instruction transcribed on?

A

DNA

B

RNA

C

tRNA

D

mRNA

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Question 198/210

Q198

K.E of the liquids is directly proportional to_____?

A

Pressure

B

Temperature

C

Mass

D

Nature

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Question 199/210

Q199

Limiting reactant controls the amount of _

A

reactant

B

products

C

both A & B

D

none of these

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Question 200/210

Q200

Which oxidation is possessed by all the elements of group III B ?

A

2

B

3

C

5

D

7

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Question 202/210

Q202

The molecule of water has structure

A

cubic

B

tetrahedral

C

trigonal

D

hexagonal system

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Question 203/210

Q203

Tautomerism involves the transfer of _____?

A

Electron

B

Carbon atom

C

Functional group

D

H-atom

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Question 204/210

Q204

In a vacuum distillation the boiling point of glycerin is reduced to _____?

A

290°C

B

110°C

C

156°C

D

210°C

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Question 205/210

Q205

Isotopes means addition of additional _____ in same proton number

A

protons

B

electrons

C

neutrons

D

all of them

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Question 206/210

Q206

A circuit that adds positive or negative dc voltage to an input sine wave is called

A

Clamper

B

clipper

C

diode clamp

D

limiter

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Question 207/210

Q207

A device that consumes electrical energy in the external circuit of generator is known as

A

appliances

B

machines

C

motors

D

load

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Q208

The half-life of a radioactive substance is 40 years. How long will it take to reduce to one fourth of its original amount and what is the value of decay constant?

A

40 year, 0.9173/year

B

80 year, 0.0173 year

C

90 year, 9.017/year

D

none of these

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Question 209/210

Q209

Ethanol forms yellow crystal with iodine in the presence of

A

ZnCl₂

B

Cons H₂SO₄ at 14 C

C

NaOH

D

KOH

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Question 210/210

Q210

Photocell is similar to

A

photoelectric effect

B

compton effect

C

photoluminescence

D

none of these

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